Call Sign	City/State	Channel	ERP kw	Location	Brg.	Dist.	Req'd
Status	File	Class	HAAT		To/Frm	km.	km.

Client: WIND N' SEA Location: Ocean City MD Class A FM Channel Study

Channel: 295A Location: 38-22-26N 75-10-38W Incl. Translators.

Data Source: FCC.

Reference: MM88-375 pge 11.

WSKX	Suffolk VA	295	100.0Ci	36-32-51	203.9	221.6 2	
Appl	BMPH8803251B	C	385.8m	76-11-04	023.9	+0.4	
WDLE	Federalsburg MD	296	3.86Ci	38-46-02	311.7	66.0	64.
Lic	BLH8702271Y	A	124.1m	75-44-45	131.7	+2.0	OK
W296AB	Hanover PA	296	0.01H	39-51-22	317.7	224.8	**
Lic.	BLFT800516ID	D	30.5m	76-56-59	137.7	**	**
WRQX	Washington DC	297	36.0CI	38-57-01	291.8	177.2	69.
Lic.	BLH791012AB	B	179.8m	77-04-47	111.8	+108.2	OK
NEW	Atlantic Cty NJ	297	25.0Ci	39-21-06		125.4	48.
Alloc	D80-90	B1	100.0m	74-27-24		+77.4	OK
NEW Appl Note: Th	Atlantic Cty NJ BPH870827NY ere are 20 applicat	297 B1 tions f	25.0Ci 100.0m for this ch	74-22-17	211.2	133.7 +85.7 shown.	48. OK
WKRE	Exmore VA	298	50.0Ci	37-31-46		113.9	69.
Lic.	BLH7464	B	79.2m	75-54-44		+44.9	OK
WBYO	Boyertown PA	298	30.0CiD	40-24-15	349.9	229.4	69.
Lic	BLH7814	B	185.9m	75-39-09	169.9	+160.4	OK

>>>>>>Chge 9987>>>>>

## (3) Interference Study. (Exhibit C)

A complete study was made using the proposed NEW site and the required spacings to co-channel, adjacent channel assignments, allocations and operating stations. The granting of A status to Channel 295 at Ocean City MD. would not preclude the upgrading of any other licensed facility, proposed facility or allocation, which is not already precluded, to next higher class. Station WDLE Federalsburg MD (presently silent) was granted an increase in power to 6 kw. This operation is protected from interference as shown by the analysis which follows. The new 294A allocation at N. Cape May NJ. shown on the database, is restricted to Class A 3 kw status by adjacent channel 295B at WKDN Camden NJ. The proposed spacing from Cape May to WKDN is 105.2 km., which is short of the 113 km required for 6 kw operation by 7.8 km. For proper spacing the site would be located in the Atlantic Ocean.

The application of the spacing table for this operation located on page 11 of FCC Dockett 89-232 protects all stations inaccordance with the rules. Examination of the the study included shows all station spacings to be within the table.

Client: Wind n' Sea NEW Ocean City MD. Page 6.

#### Exhibit D.

#### (4) Interference To Other Services.

Within the saturation contours of the proposed station there are located a number of Public Service stations operated by the County Emergency Management group, the Maryland Natural Resources Patrol and the State Police. The various operating frequencies have already been programmed into a computerized intermodulation study for NEW. NEW should not generate interference with existing services.

The applicant Partnership is aware of the requirements imposed under Sections 73.315, 73.316, and 73.318 of the Rules, and if this application is granted, the Applicant will accept responsibility, in accordance with the Rules, for the servicing of complaints of interference caused by the incoming service.

Client: Wind n' Sea NEW Ocean City MD.

#### Exhibit E.

### (5) Radio Frequency Environmental Assessment.

Wind 'n Sea FMAPartnership proposes to construct a new FM facility near the Town of Ocean Pines MD. The project is subject to the rules of the Federal Communications Commission and the Federal Aviation Administration. An existing tower is on the proposed site and is lighted with aviation warning lights and flashing beacon in accordance with FAA requirements. The site is located within the County of Worcester corporate limits and is adjacent to a private access road which borders the site. No additional access roads are therefore required.

The proposed construction of transmission facilities will in no way impact the present community services. The proposal meets safety requirements of OSHA in that the power density proposed is well below the maximum permissible OSHA level of 10 mw/cm<sup>2</sup>. In addition the lower bay of the new antenna will be 90m above ground level or at least 70.m above the worst case ANSI minimums as specified in the bulletins. The base of the antenna will be fenced to an extent well beyond that which considered necessary by the regulation. In addition, the property is not used by the public and the nature of the land and prominent warning signs make trespassing unlikely beyond the limits of protective fencing.

The presence of the proposed tower will not be the subject of controversy in the community. The antenna location is not located near any property listed in the National Register of Historic Places or in a local or state version therof; in the National Register of National Landmarks; or in an area of study in the National Wilderness Preservation Act or in the Wild and Scenic Rivers Act. The construction and operation of the existing facility have had no effect on any species identified on the Endangered Species List. The proposed changes will follow the same pattern. The project will not create or precipitate any identifiable long term changes in the diversity of animal species, the population density of any animal species, or change the behavior patterns of any animal population.

Client : Wind n' Sea NEW Ocean City MD

# Exhibit 6. Environmental (Continued).

The proposal will not utilize any unusally fragile environmental area. The changes to the existing tower will require no changes to the contour of the surface land nor will any change occur to surface water turbidity. The project will not cause or precipitate any identifiable long term changes in the diversity of plant species, or in the population density of an individual native spcies of plants.

In summary, the proposal will have no special environmental significance. There should be no further effect on scenic, cultural, historic, architectural, archeological, or recreational uses of surrounding lands, beyond that now being experienced. There will be no deforestation, water diversion, wetland fill, or other extensive change of surface features. The proposal will not create, directly or indirectly, a permanent environmental change to animals, plants, land, or humans.

## References.

Fderal Communications Commission 1919 M Street NW Washington DC 20554 Chief Mass Media Bureau.

Federal Aviation Administration Eastern Region JFK International A/P Fitzgerald Federal Bldg., Jamaica NY 11430

December 20/90.

D.B. Williamson P.E. Consulting Engineer

CAN-AM CONSULTANTS LTD.

Engineering Services From Florida to the Arctic Circle

Client: Wind 'n Sea NEW Ocean City MD.

## (6) System Description.

(a) Antenna. The antenna system proposed will be manufactured by Electronics Research Industries and will bear Continental Electronics designation G5CPM Series 2A. The antenna will consist of two bays, circularly polarized, fed at the end with 1 5/8" Heliax type air filled transmission line. The antenna is known in the trade as the "Rototiller". The antenna power gain is 0.9971 (-0.0128 db.) in vertical & horizontal planes. The antenna will be side mounted on the tower with the electrical centre 100.2m AGL, 104.8m AMSL. The electrical centre will be 100.0m AAT

#### (7) Summary.

Channel - 295A Frequency - 106.9 mhz.

Co-ordinates - 38-22-26 N 75-10-38 W

Transmitter - Type accepted.

<u>Transmission Line</u> - 125m Andrew HJ7-50B Heliax cable or equivalent. (Attenuation - 0.673 db/100m).

<u>Antenna</u> - Harris /Continental G5CPM-Series2A.

Tower - 107.7m AGL 112.3m AMSL overall height.

Radiating Centre - 100.2m AGL 100.0m AAT 104.8m AMSL

#### ERP -

Tx pwr out 3.6517 kw. 5.625 dbk.
Line loss - 0.643 kw. -0.841 db.
Antenna Pwr in 3.0087 kw. 4.784 dbk.
Antenna Gain x 0.9971 -0.0128 db.
ERP 3.0000 kw. 4.7712 dbk.

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Wind n' Sea FM/Partnership NEW Ocean City MD.

Page 10.

## (8) Tabulation of Proposed Service Contours.

## (a) Proposed Operation.

<u>Azimuth</u> (deg)	HAAT (m)	<u>ERP</u> (kw)	Dist. to 70 dbu. (km)	<u>Dist. to 60 dbu</u> . <u>(km)</u>
000	98.4	3.0	13.5	24.0
045	104.3	3.0	13.8	24.7
090	104.6	3.0	13.9	24.8
135	104.	3.0	13.8	24.6
180	102.4	3.0	13.8	24.1
225	94.9	3.0	13.4	23.4
270	95.2	3.0	13.5	23.5
315	96.2	3.0	13.5	23.8

Average 100.0

Average Terrain Elevation	0.2m
Radiating Centre AAT	100.0m
Radiating Centre AMSL	104.8m
Radiating Centre AGL	100.2m
Ground Elevation	4.6m.

Client: Wind n' Sea NEW Ocean City MD Page 11

## (9) Saturation Effects. (Exhibit F).

The location of the transmitter places a high radio field over considerable territory. The Applicant is a responsible broadcaster, well acquainted with the needs of the community. Should listener problems, or other problems with existing communications services occur; due to cross modulation or receiver overloading attributed to the incomming service; these will be serviced by the station in accordance with the requirements of Section 73.318 of the Rules.

## (10) Population Density Figures.

70dbu

60 dbu.

Proposed Operation

 $585 \text{ km}^2$ 

1827 km<sup>2</sup>

8,664 Persons

26,998 Persons.

Note: Population information for full year residence - Source C of C. Increase in population during Summer months approximately 10 times.

Repectfully submitted,

D.B. Williamson P.E.

Consulting Engineer.

Decmber 20, 1990

	involves a chang l other appurtena			ucture, spe		height a	bove grou	and level includi
application(	rting structure th s)? call letter(s) or f			cion(s) or p	-	NA	nding	Yes No
Latitude	38 <sup>0</sup>	22'	26"	Longitude		75 <sup>0</sup>	10'	38"
of array. Ot	al coordinates (to therwise, specify ude or West Long	nearest secon	nd). If mounted on Specify South	on element	of an AM ar	ray, speci	fy coordi	nates of center
(a) Specify add landmark.	Part of Lo		no address, speci le Cathell Rd			•		*
2. Exact location								
295A	City Ocear	r City	County Wor	cester	State MD	A	с	і <u>Шв</u> С 1
Channel No.		Principal co	mmunity to be s	erved:		Class	check only	one box below!
1. Allocation:								
Main S	Studio location			Other	'(Summarize br	iefly)		
<del></del>	na location			Class	•			
	na height above s	-		Frequ				
affected. Anteni	na supporting-stru	cture height		Effec	tive radiated	power		
If purpose is to	modify, indicate		ature of change(	s) and spec	elfy the file	number(s)	of the a	uthorizations
	r licensed main fa				'y licensed a	ıxiliary f	acility	
Modify	v existing constru	ction permit	for main	Modif	y existing co	nstruction	n permit	for auxiliary
Constr	uct a new (main)	facility		Const	ruct a new a	uxiliary f	acility	
Purpose of App	plication: (check ap	propriate boxle	sil	<del>.</del>				
	NEU	J .	window?  If Yes, specify	closing da	ite:			
Call letters lif	issuedl		Is this applicat	tion being	filed in respo	nse to a		Yes No
••		a FM Limit	ed Partnersh	ip				
Name of Applic	cant				Referred by			
Section \	V−B − FM BROA	DCAST ENGI	NEERING DATA	A .	ASB Referral	Date		
				I	File No.		/NL1	
				T	OR COMMISSI	ON USE	NLY	j

(a) Ocean City 7.85 km 1  (b) 7. (a) Elevation: (to the nearest seter)  (l) of site above mean sea level;  (2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and  (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 11  (b) Height of radiation center: (to the nearest seter) H · Horizontal; V · Vertical  (1) above ground 16  (2) above mean sea level [(aX1) + (bX1)] 11  (3) above average terrain 1  (4) above average terrain 10  (5) Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional array element, specify heights and orientations of all array towers, as well as location of FM radiator.  (6) Effective Radiated Power:  (a) ERP in the horizontal plane 3.0 kw (H*) 3.0 kw (V*)	
6. List all landing areas within 8 km of antenna site Specify distance and bearing from structure to nearest runway.  Landing Area  Distance (km)  Fearing (c)  7.85 km  Fearing (c)	Yes No.
Landing Area   Distance (km)   Bearing (composition of the supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and  (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)]   11  (b) Height of radiation center: (to the nearest seter)   H - Horizontal; V - Vertical  (1) above ground   10  (2) above mean sea level [(aX1) + (bX1)]   11  (2) above average terrain   1  Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane   3.0   kw (H+)   3.0   kw (V+)	
Landing Area  Distance (km)  Rearing (c)  1  Coean City  7.85 km  1  (a)  Coean City  7.85 km  1  (b)  (a) Elevation: (to the nearest seter)  (i) of site above mean sea level;  (2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and  (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)]  (b) Height of radiation center: (to the nearest seter) H. Horizontal; V. Vertical  (1) above ground  (2) above mean sea level [(aX1) + (bX1)]  (3) above average terrain  10  Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0 kw (H.)  3.0 kw (V.)	o nearest point
(a) Elevation: (to the nearest seter)  (b) (a) Elevation: (to the nearest seter)  (c) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and  (d) of the top of supporting structure above mean sea level [(aX1) + (aX2)]  (e) Height of radiation center: (to the nearest seter) H - Horizontal; V - Vertical  (f) above ground  (g) above mean sea level [(aX1) + (bX1)]  (g) above average terrain  10  Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0 kw (H+) 3.0 kw (V-)	degrees True)
(a) Elevation: (to the nearest seter)  (i) of site above mean sea level;  (2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and  (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)]  (b) Height of radiation center: (to the nearest seter) H. Horizontal; V. Vertical  (i) above ground  (ii) above ground  (iii)  (iii)  (iii)  (iii)  (iii)  (iii)  (iii)  (iiii)  (iii)  (iiii)  (iii)  (ii	45 <sup>0</sup> T.
(1) of site above mean sea level;  (2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and  (3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)]  (b) Height of radiation center: ito the neerest seter) H · Horizontal; V · Vertical  (1) above ground  (2) above mean sea level [(a)(1) + (b)(1)]  (3) above average terrain  10  11  11  Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0 kw (H*)  3.0 kw (V*)	
(1) of site above mean sea level;  (2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and  (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)]  (4) Height of radiation center: (to the neerest seter) H - Horizontal; V - Vertical  (1) above ground  (2) above mean sea level [(aX1) + (bX1)]  (3) above average terrain  (4) Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0 kw (H=) 3.0 kw (V=)	4.6m
(2) of the top of supporting structure above ground (including antenna all other appurtenances, and lighting, if any); and  (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)]  (4) Height of radiation center: (to the neerest seter) H - Horizontal; V - Vertical  (1) above ground  (2) above mean sea level [(aX1) + (bX1)]  (3) above average terrain  (3) above average terrain  Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0 kw (H*)  3.0 kw (V*)	mete
(3) of the top of supporting structure above mean sea level [ (a)(1) + (a)(2)]  (1) Above ground  (2) above mean sea level [ (a)(1) + (b)(1) ]  (3) above average terrain  (4) Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  (5) Effective Radiated Power:  (6) ERP in the horizontal plane  3.0	)7.7m mete
(1) above ground  (2) above mean sea level [(aX1) + (bX1)]  (3) above average terrain  Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0	<b>2.3m</b> mete
(2) above mean sea level [(aX1) + (bX1)]  (3) above average terrain  Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0 kw (H*)  5.0 kw (V*)	
(2) above mean sea level [(aX1) + (bX1)]  (3) above average terrain  Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0	)0.2m mete
(3) above average terrain  Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0	00.2m mete
Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0	04.8m mete
Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0	4.8m mete
Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0 kw (H*) 3.0 kw (V*)	00.0m mete
in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.  Effective Radiated Power:  (a) ERP in the horizontal plane  3.0 kw (H*) 3.0 kw (V*)	00.0m mete
(a) ERP in the horizontal plane <b>3.0</b> kw (H*) <b>3.0</b> kw (V*)	Ex B No.
kw (H*)	•
(h) Ig hoom till proposed	
(b) Is beam tilt proposed?	Yes Yes
If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a	E: DNA Jo.
vertical elevational plot of radiated field kw (H*) kw (V*)	L

### SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed?	Yes No
If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.	Ex DNA No.
11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 78.815(a) and (b)?	Yes No
If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service.	To DNA No.
12. Will the main studio be within the protected 8.16 mV/m field strength contour of this proposal?	Yes No
If No. attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.	E DNA 10.
13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?	Yes No
(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?	Yes No
(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.	EN DNA O.
(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.	Ex C No.
(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:	E DNA to.
<ol> <li>Protected and interfering contours, in all directions (360°), for the proposed operation.</li> <li>Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.</li> </ol>	
<ul> <li>(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.</li> <li>(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.</li> <li>(5) The official title(s) of the map(s) used in the exhibits(s).</li> </ul>	
14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens bend or exeteur) radio stations, or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas, or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?	Yes No
If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 L.F.R. Sections 73.315(b), 73.315(e) and 73.318.)	Ext <b>0</b> No.

that This clea	ch as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map shows clearly, legibly, and accurately, the location of the proposed transmitting antenna map must comply with the requirements set forth in Instruction V. The map must further ly and legibly display the original printed contour lines and data as well as latitude and trude markings, and must bear a scale of distance in kilometers.
with	ch as an Exhibit (neme the source) a map which shows clearly, legibly, and accurately, and the original printed latitude and longitude markings and a scale of distance in meters:
	he proposed transmitter location, and the radials along which profile graphs have been repared;
(b)	he 3.16 mV/m and 1 mV/m predicted contours, and
(e) t	he legal boundaries of the principal community to be served.
_	fy area in square kilometers (1 sq. mi. = 259 sq. km.) and population (latest census) within predicted 1 mV/m contour.
Aı	ea 1827 sq. km. Population 26998
Aeron	an application involving an auxiliary facility only, attach as an Exhibit a map (Sectional nutrical that shows clearly, legibly, and accurately, and with latitude longitude markings and a scale of distance in kilometers.
(a) t	he proposed auxiliary 1 mV/m contour; and
	he I mV/m contour of the licensed main facility for which the applied-for facility will be axiliary. Also specify the file number of the license.
19. Terr	in and coverage data to be calculated in accordance with 47 C.F.R. Section 73,313)
Sour	ce of terrain data: (check only one box below)
	Linearly interpolated 30-second database 75 minute topographic map
	(Source:)
	Other (briefly summerize)

## Maps used in presentation.

Exhibit G - Berlin MD 7.5' 38075 B2
Exhibit H - Salisbury 1:250000 38074 R1.
Radial Computations - Maryland/Delaware Series 380785
7.5' B,C,D,E - 1,2,3,4

	Height of radiation center above average	Predicted	Distances
Radial bearing (degrees True)	elevation of radial from 3 to 16 km (meters)	To the 8.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
**090	104.6	13.9	24.8
000	98.4	13.5	24.0
045	104.3	13.8	24.7
090	104.6	13.9	24.8
135	104.0	13.8	24.6
180	102.4	13.8	24.1
225	94.9	13.4	23.4
270	95.2	13.5	23.5
315	96.2	13.5	23.8

<sup>\*</sup>Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

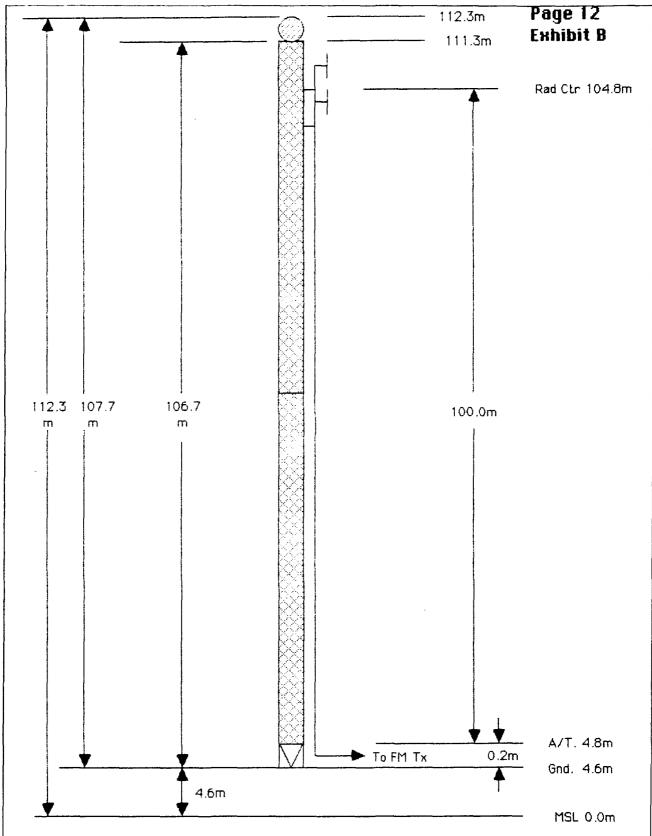
20.	Environmental	Statement/See	47 C.F.R.	Section	1.1301	et seali	,

Would a Commission grant of this application come within Section 11307 of the FCC Rules, such that it may have a significant environmental impact?	
If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.	Ex E : No.
If No, explain briefly why not.	L

#### CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation. I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed).  D.B. Williamson P.E.	Relationship to Applicant (e.g., Consulting Engineer)  Consulting Engineer
Signature	Address linclude ZIP Codel P.O.Box 246 Queenstown MD 21658-0246
Date December 21, 1990	Telephone No.



NEW-FM Tower Elevation Sketch showing location of antenna. FM Antenna ERI Low Pwr. 2 Bay Harris FML-2AE/Cont. G5CPM December 20/1990

CAN-AM CONSULTANTS LTD.

Engineering Services From Florida to the Arctic Circle

State of )
Maryland ) ss:

Donald B. Williamson, deposes and says that he is a Registered Professional Engineer, and President of Can-Am Consultants Limited. This company operates in the State of Maryland and the Provinces of Ontario, Quebec, and Alberta, Canada. Mr. Williamson's Engineering qualifications are well known to Communications Canada in Ottawa, Canada and to the Federal Communications Commission in Washington D.C. He has been in continuous private practice as a Qualified Consulting Engineer since 1956.

Affiant states that the calculations and measurements contained in the accompanying report were made by him personally or under his direct supervision and that he believes them to be correct in all respects. All statements made in this report are true of his own knowledge except where stated to be on information from other sources, information or belief, and these statements he believes to be true.

D.B. Williamson P.E. Consulting Engineer.

December 21, 1990.

